

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

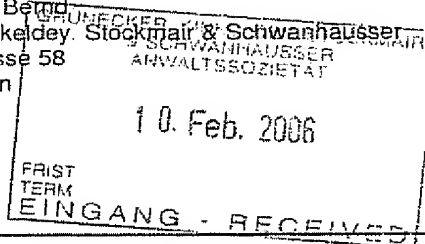
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NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

To:

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RECEIVED

MAR 22 2006 19

Date of mailing (day/month/year)
02 February 2006 (02.02.2006)

Applicant's or agent's file reference
PCT2140HHBRhm

CONLEY ROSE PC - HOU

IMPORTANT NOTICE

International application No.
PCT/EP2004/007950

International filing date (day/month/year)
16 July 2004 (16.07.2004)

Priority date (day/month/year)
17 July 2003 (17.07.2003)

Applicant

COOPER CAMERON CORPORATION et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
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1211 Geneva 20, Switzerland

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PCT2140HHBRrhbm	FOR FURTHER ACTION	See item 4 below
International application No. PCT/EP2004/007950	International filing date (<i>day/month/year</i>) 16 July 2004 (16 07 2004)	Priority date (<i>day/month/year</i>) 17 July 2003 (17 07 2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant COOPER CAMERON CORPORATION		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> 1(a).																								
2.	This REPORT consists of a total of 6 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.																								
3.	<p>This report contains indications relating to the following items:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 30%;">Box No. I</td> <td style="width: 60%;">Basis of the report</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input checked="" type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input checked="" type="checkbox"/>	Box No. VIII	Certain observations on the international application
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<input checked="" type="checkbox"/>	Box No. VIII	Certain observations on the international application																							
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis 3(c) and 93bis 1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis 2)																								

<p style="text-align: center;">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 740 14 35</p>	<p>Date of issuance of this report 23 January 2006 (23 01 2006)</p> <p>Authorized officer <div style="text-align: center; font-weight: bold;">Agnes Wittmann-Regis</div></p> <p>Telephone No. +41 22 338 89 70</p>
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PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

REC'D 29 SEP 2004

PCT
WIPO

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To:

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/EP2004/007950

International filing date (day/month/year)
16.07.2004

Priority date (day/month/year)
17.07.2003

International Patent Classification (IPC) or both national classification and IPC
F04B13/00, B01F15/04

Applicant
COOPER CAMERON CORPORATION

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☒ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66 1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later

For further options, see Form PCT/ISA/220

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office
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Authorized Officer

Gnüchtel, F

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/EP2004/007950

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ in written format
 - ☐ in computer readable form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in computer readable form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/EP2004/007950

Box No. II Priority

1. ☒ The following document has not been furnished:

- ☒ copy of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(a))
- ☐ translation of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	4,6-10,14-25
	No: Claims	1-3,5,11-13
Inventive step (IS)	Yes: Claims	4,6-10,14-25
	No: Claims	1-3,5,11-13
Industrial applicability (IA)	Yes: Claims	1-25
	No: Claims	

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Cited Documents

The following documents indicated in the search report are referred to in this written opinion:

D1: US-A-2,789,510 (Meynig, R.E.)

D2: US-A-2,594,577 (McFarland, A.E.)

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- V.1 The present international application does not fulfill the requirements of the PCT, in that the subject-matter of independent claim 1 is considered to lack novelty in the sense of Article 33(2) PCT.

Document **D1** discloses a dosage feed device (liquid injector) for the dosage of an additive fluid (chemical liquid) in crude oil production (oil stream leaving a well). The dosage feed device of **D1** comprises a dosing element (valve 15 mounted on dosing pump 1) which can be adjusted by an adjustment device (needle valve 24/25/26). The dosing element of **D1** further exhibits a dosing gap (gap between end section 24 of needle 25 and seat 23) and a valve device (ball valve 27) arranged following in the fluid flow direction of said additive fluid. Refer to the passages cited in the search report, and in particular to column 3, lines 29-31: "[...] the rate at which the chemical fluid will be discharged through passageway 22 will be determined by the setting of needle valve 25".

Hence, all the technical features of claim 1 are directly derivable from document **D1** and therefore the subject-matter of claim 1 is not new (Article 33(2) PCT).

- V.2 It is noted that the disclosure of document **D2** also seems to be prejudicial to the novelty (Article 33(2) PCT) of the subject-matter of claim 1. **D2** discloses a common piston type dosing pump with adjustable stroke length of the piston. In this context the dosing element is representable by the piston in its cylinder, and the adjustment device is represented by the stroke adjustment means. The term "dosing gap" is considered to be broad enough to include the pumping chamber/gap 6 of **D2**, which chamber is of adjustable size with the varying of the piston stroke, and which

chamber is delimited by a valve following in the fluid flow direction of said additive fluid.

- v.3 Dependent claims 2, 3, 5 and 11 to 13 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT with respect to novelty (Article 33(2) PCT), since these additional features are already known from document **D1**.

Re Item VIII

Certain observations on the international application

- VIII.1 The subject-matter of claim 1 lacks clarity in the sense of Article 6 PCT), due to the use of the wording "in particular for" in order to define the dosing of an additive fluid. This wording merely defines an optional, not limiting possibility of dosing said additive fluid. The lack of clarity arises due to the fact that the mutual arrangement of the dosing gap and the valve device is being defined in relation to the flow direction of the (optional) additive fluid.